## Rec'd PCT/PTO 31 JAN 2006

PTO/SB/01A (09-04)

Approved for use through 07/31/2006. OMB 0651-0032

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)						
Title of Invention	ATOMIC LAYER DEPOSITION USING METAL AMIDINATES					
As the below named inventor(s), I/we declare that:						
This declaration is directed to:						
The attached application, or						
x	Application No.	10/534687	, filed or	05/12/2005,		
	X as amend	ed on	05/12/2005	(if applicable);		
I/we believe that I/we sought;	am/are the original and fi	rst inventor(s) of the su	oject matter which	is claimed and for which a patent is		
I/we have reviewed ar amendment specifical	nd understand the content ly referred to above;	ts of the above-identifie	d application, inclu	ding the claims, as amended by any		
material to patentabili became available bet	I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.					
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.						
FULL NAME OF IN	VENTOR(S)			ψ-		
Inventor one:	oy G. GORDON					
Signature: No	prodo-		Citizen of:	US		
Inventor two: 4	ooyong S. LIM					
Signature:	-	(	Citizen of:	KOREA		
Inventor three:						
Signature:		(	Citizen of:			
Inventor four:						
Signature:		(	Citizen of:			
Additional inven	tors or a legal representa	tive are being named or	add	litional form(s) attached hereto.		
I hereby certify that this an envelope addressed shown below.	correspondence is being do to: MS Missing Parts, Con	eposited with the U.S. Ponmissioner for Patents, P.	stal Service with suf O. Box 1450, Alexa	fficient postage as First Class Mail, in ndria, VA 22313-1450, on the date		
Dated:	Signatu	ire:		(Janice Roussel)		

PTO/SB/01A (09-04)

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) ATOMIC LAYER DEPOSITION USING METAL AMIDINATES Title of Invention As the below named inventor(s), I/we declare that: This declaration is directed to: The attached application, or \_\_\_\_\_ , filed on 05/12/2005 10/534687 Application No. 05/12/2005 (if applicable); X as amended on I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought; I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above; I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon. FULL NAME OF INVENTOR(S) Roy G. GORDON Inventor one: Citizen of: Signature: Booyong S. LIM Inventor two: **KOREA** Citizen of: Signature: Inventor three: Citizen of: Signature: Inventor four: Citizen of: Signature: additional form(s) attached hereto. Additional inventors or a legal representative are being named on I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below. \_ (Janice Roussel) Dated:

PTO/SB/96 (09-04;
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Under the Paperwork Reduction Act of 1995, no persons are required to  STATEMENT UN	DER 37 CFR 3.73(b)	
Applicant/Patent Owner: Roy G. GORDON et al.		
Application No./Patent No.: 10/534687	Filed/Issue Date:	May 12, 2005
Entitled: ATOMIC LAYER DEPOSITION USING MI	ETAL AMIDINATES	
Harvard University , a (Name of Assignee)	Type of Assignee, e.g., corporation, par	rtnership, university, government agency, etc.)
states that it is:		
<ol> <li>x the assignee of the entire right, title, and interest.</li> </ol>		
<ol> <li>an assignee of less than the entire right, title</li> <li>The extent (by percentage) of its ownership</li> </ol>	interest is%	
in the patent application/patent identified above by virt	ue of either:	
A. An assignment from the inventor(s) of the part was recorded in the United States Patent and Frame, or for which a co	I ragemark Unice at neer	tified above. The assignment
B. A chain of title from the inventor(s), of the parassignee as shown below:	tent application/patent iden	tified above, to the current
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Reel, Frame	, or for which a co	ppy thereof is attached.
Additional documents in the chain of title	are listed on a supplemen	tal sheet.
X Copies of assignments or other documents [NOTE: A separate copy (i.e., a true copy of submitted to Assignment Division in accordate recorded in the records of the USPTO. See	ance with 37 CFR Part 3, if MPEP 302.08]	the assignment is to be
The undersigned (whose title is supplied below) is at	uthorized to act on behalf o	the assignee.        Q   OC   Date
Signature  Signature  Senior Associate Fin	ovost	7 - 445 - 3067 Telephone Number
Chief Technology Development Officer Office of Technology Development Hervard University Title		Telephone Number
Title		
	and the second s	sufficient postage as First Class Mail. in
I hereby certify that this correspondence is being deposited wan envelope addressed to: Commissioner for Patents, P.O. I	50. 1 100, 1 100, 1	
Dated: Signature:		(Janice Roussel)

PTTO/SB/80 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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OR	s) named below (if more th	nan ten patent practif	tioners are to be named, then	a customer number	r must be useu).
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ny and all patent a tached to this form	in accordance with 37 CFR	3.73(b).	identified in the attached	statement under 37	CFR 3.73(b) to:
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## **ASSIGNMENT**

WHEREAS, I, Roy G. Gordon, being a citizen of the United States of America, residing at 22 Highland Street, Cambridge, Massachusetts 02138 am a co-inventor of certain new and useful inventions and discoveries, for which an application for Letters Patent entitled "Atomic Layer Deposition Using Metal Amidinates," was filed with the United States Patent and Trademark Office on May 12, 2005, and assigned United States Patent Application Number 10/534,687; and

WHEREAS, President and Fellows of Harvard College, a Massachusetts non-profit organization, whose business address is 17 Quincy Street, Cambridge, Massachusetts 02138, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservations:

- 1. Assign, transfer, and convey to ASSIGNEE my entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, continued prosecution applications, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;
- 2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell

U.S.S.N. 10/534,687 Gordon, et al.

anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to ASSIGNEE without encumbrance;

ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to me or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 28 day of January 2006.  Roy G. Gordon
COMMONWEALTH OF MASSACHUSETTS  , ss:
On this 28 day of January, 2006, before me, the undersigned Notary public, personally appeared Court of Cordon, proved to me through satisfactory evidence of identification to be the person Detableane Shayled on the preceding or attached document in my presence.  NOTARY PUBLIC Commonwealth of Massachusetts My Commission Expires Dec. 8, 2011
Notary Public U

## **ASSIGNMENT**

WHEREAS, I, Booyong S. Lim, being a citizen of Korea, residing at 254 E. Emerson Road, Lexington, Massachusetts 02420 am a co-inventor of certain new and useful inventions and discoveries, for which an application for Letters Patent entitled "Atomic Layer Deposition Using Metal Amidinates," was filed with the United States Patent and Trademark Office on May 12, 2005, and assigned United States Patent Application Number 10/534,687; and

WHEREAS, President and Fellows of Harvard College, a Massachusetts non-profit organization, whose business address is 17 Quincy Street, Cambridge, Massachusetts 02138, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

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- 2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell

anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to ASSIGNEE without encumbrance;

ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to me or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY 2006.	WHEREOF, I have hereunto set my hand and seal this 12 day of January  Booyong S. Lim
	COMMONWEALTH OF MASSACHUSETTS
MIDDLESEX	
On this 12 day Notary public, per	rof <u>January</u> , 2006, before me, the undersigned ronally appeared <u>Booyons</u> S. Lim, proved
to me through sati	isfactory evidence of identification to be the person whose name is signed on the
preceding or attac	hed document in my presence.
Pamel	la Sam
Notary Public	PAMELA CACELO
	Notary Public Commonwealth of Massachusetts My Commission Expires